"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMAL, Frantisek, prof., inz.; KOSIK, Martin, inz.; KOVACIK, Vladimir, inz.

Properties of chemical pulp prepared by acid-alkaline cooking of reed. Papir a celulosa 18 no.1:1-3 Ja '63.

1. Chemicka fakulta, Slovenska vysoka skola technicka, Bratislava.
2. Clen korespondent Slovenskej akademie vied (for Kozmal).

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMAL, Frantisek, prof.,inz.; BUCKO, Jan

Processing of Slovakian chestnut wood to paper and chemical pulp.
Papir a celulosa 18 no.4:73-76 Ap '63.

1. Katedra chemickej technologie dreva a chemickych vlaken, Slovenska vysoka skola technicka, Bratislava.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMAL,F.; KOSIK,M.; KOVACIK,V.

Preparation of reed chemical cellulose through acid and alkaline processes. Cel hirtie 12 no.5/6:165-168 My-Je'63.

1. Membru corespondent al Academiei Slovace de Stiinte (for Kozmal). 2. Politehnica slovaca, Bratislava (for Kosik, Kovacik).

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMAL, Frantisek, prof., inz.

Pulpwood bark, present research problems and possibilities of its use. Papir a celulosa 18 no.9:175-181 S '63.

1. Katedra chemickej technologie dreva a chemickych vlaken, Slovenska vysoka skola technicka, Bratislava.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMAL, Frantisek; HOSTOMSKY, Juraj

Twenty years of educational, scientific, and research activity of the Chair of Chemical Technology of Wood and Chemical Fibers of the Faculty of Chemistry of the Slovak Higher School of Technology in Bratislava. Papir a celulosa 18 no. 12: 235-236 D '63.

1. Katedra chemickej technologie dreva a chemickych vlaken chemickej fakulty Slovenskej vysokej skoly technickej, Bratislava.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMAL, Frantisek

International Symposium and the Second Scientific and Technological Conference in Lodz. Vestnik CSAV 73 no. 1: 152-154 '64.

1. Clen korespondent Slovenskej akademie vied.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMAL, Frantishek [Kozmal, Frantisek], prof.; DOBROVOL'SKIY, D.S., kand. tekhn. nauk, dots.[translator]

[Paper manufacture in theory and practice] Proizvodstvo bumagi v teorii i na praktike. Moskva, Izd-vo "Lesnaia promyshlennost'." Vol.1. [Manufacture of semifinished products] Proizvodstvo voloknistykh polufabrikatov. 1964. 878 p. Translated from the Slovak. (MIRA 17:5)

1. Chlen-korrespondent Slovatskoy akademii nauk (for Kozmal). 2. Zaveduyushchiy kafedroy tsellyulozno-bumazhnogo proizvodstva Sibirskogo tekhnologicheskogo instituta (for Dobrovol'skiy).

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

Zdeněk, František, prof. ing.

International symposium and the Second Scientific Technological Conference in Lodz. Papír a celulóza 19 no.2:61-62 F'64.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

RENDOSH, F. [Rendos, F.]; DOMANSKIY, R.; KOZMAL, F.; ZELNIK, A.; PAYTIK, I.

Production of furfurole and acetic acid by means of low-temperature pyrolysis of sawdust in a fluidized bed. Gidroliz. i lesokhim. prom. 17 no.7:12-13 '64. (MIRA 17:11)

1. Slovatskaya akademiya nauk (for Rendosh, Domanskiy, Kozmal). 2. Slovatskiy politekhnicheskiy institut (for Zelnik). 3. Zavod 'Buchina" (for Pavtik).

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMAL, F.

Sixtieth birthday of Professor Juraj Hostomsky. Chem zvesti 18 no.4:310-311 '64

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMANE, Kutschera Gabriella, dr.

On intoxications in children according to the 5-year toxicological material of the Pal Heim Pediatric Hospital. Orv. hetil. 103 no.12: 549-552 25 Mr '62.

1. Fovarosi Tanacs Heim Pal Gyermekkorhaz, Gyermek Bel- es Toxicologiai Osztaly.

(POISONING in inf & child)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

MODYANOV, A.V., doktor sel'skokhozyaystvennykh nauk,; KOZMANISHVILI, A.G., aspirant,; KISELEV, Ye. V., mladshiy nauchnyy sotrudnik

Urea and ammonium sulfate as agents increasing the value of corn silage. Zhivotnovodstvo 20 no. 7:22-26 Jl '58. (MIRA 11:8)

1. Vsesoyuznyy institut zhivotnovodstva (for Kozmanishvili).
2. Annenkovskaya opytnaya stantsiya zhivotnovodstva (for Kiselev).

(Corn(Maize))
(Ensilage)
(Urea)
(Ammonium sulfate)

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMANISHVILI, A. G., Cand Agr Sci -- (diss) "Effectiveness of enriching corn silos with ammonium urate and ammonium sulfate in the feeding of growing sheep." Moscow, 1960. 18 pp; (All-Union Scientific Research Inst of Animal Husbandry, Division of the Feeding of Agricultural Animals); 150 copies; price not given; (KL, 17-60, 163)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMANOV, Yu. D.; ARKHAROV, V. I.

"Changes in the Grain Size of Steel as a Result of Recrystallization," Published by Doklady Akademii Nauk SSSR 69 (1948) No 1, pp 33/35.

Evaluation
B-77299, 29 Jul 1954

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMANOV, YU. D.
CA

4

Changes of the grain size of steel as a result of recrystallization. V. I. Arkharov and Yu. D. Kozmanov (A. M. Gorkii, Ural State Univ.). *Doklady Akad. Nauk S.S.S.R.* 69, 33-5(1949).—If the conditions are such that the nuclei of new grains are oriented independently of the old, then grain refinement results from phase change type recrystn. However, if the new grains are related to the old, then an "intragranular texture" is produced that leaves the new crystal structure with the original coarse grain properties. As the result of vol. changes on recrystn., cold working of the new crystals may occur and lead to the second type of recrystn. The structural changes produced by this effect cannot be detd. by microscopic examn., and "axial" x-ray cameras with monochromatic radiation were used to study individual grains in 2-mm. thick disk specimens of 18 KhNMA steel air-cooled from the heat-treating temp. At ordinary rates of heating, and for temps. above the transformation temp. but below 1000° an intragranular texture arose for all times at temp. (3 min. to 9 hrs.). On heating to 1020-1070° even for 5 min., the original texture disappeared and the grain size was greatly reduced. If the time of heating at 1050-1070° was 15 min. or more, a new texture of coarse-grained austenite replaced the initial intragranular texture. On heating at 1000°/sec., and for upper limiting temps. of 1000°, an intragranular texture was produced; for an 1100° limiting temp. grain refinement occurred. Thus, the recrystn. threshold for this steel as the result of self cold-working is 1000-1020°. A. G. Guy

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMANCV, Yu. D. 261T80

USSR/Metallurgy - Aluminum, Thermal Fatigue 21 Jan 53

"Concerning the Thermal Fatigue of Aluminum Single Crystals," V.I. Arkharov, S.G. Ignat'yeva, Yu.D. Kozmanov, Ural State U im A.M. Gor'kiy

DAN SSSR, Vol 88, No 3, pp 439-440

Describes expts to establish effect of temp gradient on structural changes, reflected in changes of Laue patterns, when Al single crystals are subjected to cyclic heat treatment. This is revision of assumption presented in earlier

261T80

work (DAN USSR, Vol 83, p 681, 1952), in which influence of temp gradient on thermal fatigue was considered practically nonexistent. As result of expts, authors concluded that thermal fatigue of Al single crystals is basically caused by temp gradients; but X-ray structural picture of this phenomenon reflects mosaic structure of crystals. Presented by Acad I.P. Bardin 22 Nov 52

(CA 47 no. 22: 12172, '53)

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

Kazmanov, Yu. D.

62 The adsorption of impurities on aluminum crystal boundaries. T. E. Pilotov and Yu. D. Kozmanov (A. M. Gor'kii Ural State Univ., Sverdlovsk). *Doklady Akad. Nauk S.S.S.R.* 95, 803-6(1954).—Single crystals of technically pure Al (99.7% purity) and pure Al (99.99%) were obtained by recrystn. after crit. deformation. The crystals were bent over a cylindrical surface ($r = 7$ mm.), annealed for 5 hrs. at 640°, cooled in the air, additionally annealed for 1 hr. at 400°, and electrolytically polished; the treatment revealed a macromol. mosaic structure in the technically pure crystals, whereas the same treatment of the pure Al crystals failed to reveal such structure. The development of this structure only after additl. annealing is attributed to the higher soly. of impurities at 600-650°, and their deposition at the lower temp. W. M. Sternberg

(1)

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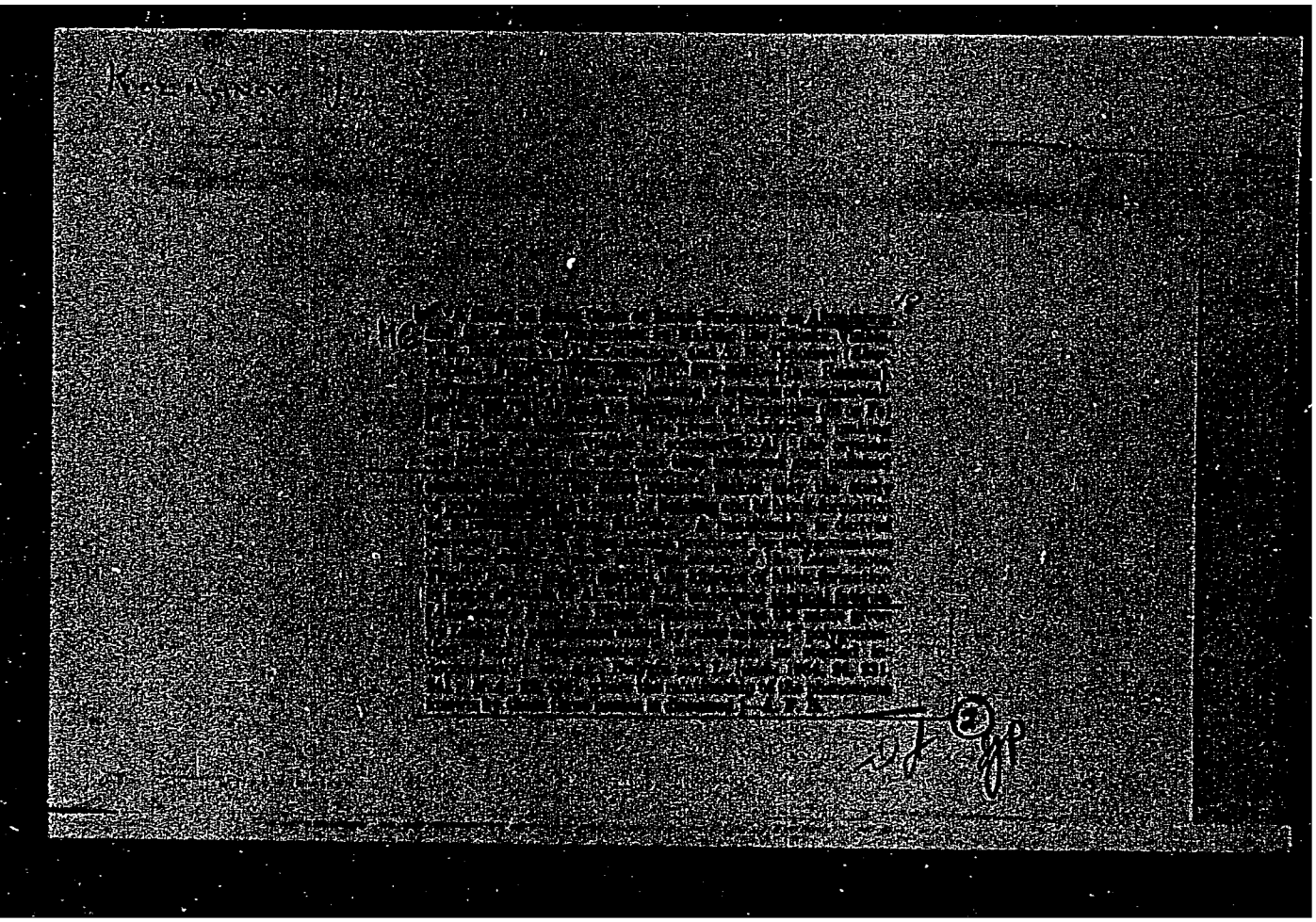

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

-Kozmanov Yu. D.

Category: USSR

B-9

Abs Jour: Zh--Kh, No 3, 1957, 7558

Author : Arkharov, V. I. and Kozmanov, Yu. D.
Inst : Not given
Title : On the High Temperature Oxidation of Tungsten

Orig Pub: Fiz. Metallov i Metallovedeniye, 1956, Vol 2, No 2, 361-369

Abstract: The phase composition of the scale produced on tungsten by oxidation at 500-1350° has been investigated by radiographic methods. The scale formed in the indicated temperature range consists of two layers. The outer layer below 1,000° consists of α-WO_3, and above 1,000°, of α-WO_3; the inner layer consists of γ-WO_3. A change in depth of the lattice constants, ascribed to the formation of anion vacancies is observed in the outer layer. The change in the structure of the scale with temperature, experiments with inert indicators, and the change in depth

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

Category: USSR

Abs Jour: Zh. Kh, No 3, 1957, 7558

of the lattice constants as well as the appearance of the oxidized samples, in the opinion of the authors, show that oxygen diffusion is of preponderant importance in the oxidation reaction of W. The kinetics of the oxidation of W in air at 700-1260° are represented by a curve of the type log (Δ p/s) = f(1/T), where Δ p is the increase in weight and s is the surface area of the sample. The curve goes through a maximum at 1,000°. The drop in the curve observed at temperatures above 1,000° is ascribed to the $\alpha \longrightarrow \alpha'$ transformation. A mechanism is proposed for the oxidation of W.

Card : 2/2

Kozmanov, Yu. D

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

Category : USSR/Solid State Physics - Phase Transformation in Solid Bodies E-5

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6687

Author : Arkharov, V.I., Kozmanov, Yu.D.
Inst : Ural' University, USSR
Title : Concerning the Problem of Oxidation of Molybdenum in the Temperature Range Above the Melting Point of MoO_3.

Orig Pub : Fiz. metallov i metallovedeniye, 1956, 2, No 3, 566

Abstract : The speed of oxidation of molybdenum in air was measured at 900 -- 1300°, i.e., above the melting temperature of MoO_3 (793°). The speed of oxidation was measured from the gain in weight of the specimen per unit surface area after 20 minutes of oxidation. The speed of oxidation remains almost constant over a wide temperature range. The speed of oxidation depends substantially on the partial pressure of O_2. At 900°, only MoO_3 can be detected by X-ray diffraction, and at 1100 -- 1300° the specimens become covered with a thin film of MoO_2. A possible mechanism of the oxidation of molybdenum above the melting point of MoO_3 is discussed.

Card : 1/1

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMANOV, Yu. D.

137-58-6-12854

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 239 (USSR)

AUTHORS: Arkharov, V.I., Kozmanov, Yu.D.

TITLE: Some Problems of High-temperature Oxidation of Tungsten and Molybdenum and Iron-tungsten and Iron-molybdenum Alloys (Nekotoryye voprosy vysokotemperaturnogo okisleniya vol'frama, molibdena i splavov zheleza s vol'framom i zheleza s molibdenom)

PERIODICAL: V sb.: Issled. po zharoprochn. splavam. Vol 2. Moscow, AN SSSR, 1957, pp 131-134

ABSTRACT: The oxidation of Mo, W, and their alloys with Fe within the 500-1350°C temperature range has been investigated. It is established that during the oxidation of W the predominant phenomenon is the diffusion of O_2, whereas during the oxidation of Fe and Fe-Mo-alloys the diffusion has a two-sided character: Fe diffuses toward the surface, O_2 toward the interior. At low temperatures the oxide scale of Fe and Fe-Mo alloys consists mainly of oxides of Fe; at high temperatures the scale of low-alloy compounds has the same content. The scale of high-alloy compounds at temperatures of 800-850°C contains oxides of W

Card 1/2

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Some Problems of High-temperature (cont.)

or Mo, also complex oxides. the diffusion in this case has a one-sided character O_2 diffuses into the interior. During the oxidation of W, Mo, and their alloys with Fe the volatility of the oxides effects a lowering of the heat-stability(refractoriness) of these metals. Delicate structural changes in the crystalline lattice of W, Mo, and the complex $Fe\text{-}W_2$ and Fe-Mo oxides may considerably change the volatility of the oxide phases. Modification of the structure (inoculation) of the oxide phases is proposed to improve the refractoriness of these alloys.

G.K.

1. Tungsten alloys--Oxidation 2. Molybdenum alloys--Oxidation 3. Temperature --Effectiveness

Card 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMANOV, Yu. D.

AUTHOR: Kozmanov, Yu. D. 126-1-11/40

TITLE: Investigation of the high temperature oxidation of certain alloys of iron with tungsten. (Issledovaniye vysokotemperaturnogo okisleniya nekotorykh splavov zheleza s vol'framom).

PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol.5, No.1, pp. 74-81 (USSR)

ABSTRACT: The kinetics were investigated of the oxidation of alloys of iron with up to 60% W, the phase state of the scale was determined and certain views are expressed relating to the mechanism of oxidation of the investigated alloys. Scheil, E. and Kiwit, K. (Ref.3) found that iron alloys containing 4% W have a lower oxidation rate than iron for oxidation at temperatures below 1100°C, whilst at 1100°C the oxidation of such an alloy does not differ from that of pure iron. They observed a concentration of the tungsten in the inner layer of the scale in the form of the compound $FeO.WO_3$ and also a nonuniformity in the oxidation front, i.e. "internal" oxidation. The aim of the work described in this paper was to investigate the influence of tungsten admixtures on the heat resistance of steel and to elucidate the mechanism of oxidation of alloys of iron with tungsten. The investigations were

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

Investigation of the high temperature oxidation of certain alloys of iron with tungsten.

carried out on alloys of iron containing about 5, 9, 16 and 60% W, 0.020 to 0.16% C, 0.070 to zero % Si, 0.037 to zero % Mn. The alloys containing 5 to 16% tungsten were forged and then homogenisation annealed in vacuum at 800°C for 50 to 100 hours. The FeW (commercial ferrotungsten) was not subjected to homogenisation. The ferrotungsten was used in the as-delivered state, i.e. a multiphase system consisting of W, a solid solution of W in Fe and the intermetallic compound Fe_2W. The specimens with 5 to 16% W were made in the form of rectangular parallelepipeds with a surface of about 700 mm^2, the specimens of the alloy containing 60% W had smaller surfaces of up to 300 mm^2. Prior to oxidation, the specimens were ground on emery paper and their surface was degreased by washing in alcohol and acetone. The kinetics of oxidation was studied by continuous weighing by means of an analytical scale without removing the specimens from the furnace during the process of oxidation; the weighing accuracy was $\pm$ 0.5 mg. In addition to the kinetics of oxidation, the external characteristics of oxidation and the phase state were studied; for some of

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Investigation of the high temperature oxidation of certain alloys of iron with tungsten.

the specimens metallographic and texture studies were also carried out. Table 2 contains data on the weight increase (mg/cm^2) of the individual specimens at the temperatures of 700, 800, 900, 950 and 1100°C for 1, 5, 10 and 18 hours respectively. Other data are given in Table 3. The dependence of the logarithm of the specific weight increase as a function of the logarithm of time for the alloys containing 5, 9 and 60% W are graphed in Figs.4-7. It was established that alloys of iron containing up to 16% tungsten have a higher resistance to scale formation than pure iron, whereby the first 5% of tungsten addition is the most effective. Alloying of iron with tungsten improves the resistance to scale formation primarily in the temperature range 700 to 800°C. At 1100°C the oxidation of iron containing up to 16% W differs little from the oxidation of iron without W. It was established that the oxidation of Fe-W alloys (up to 60% W) complies with the law of the type $W^n = kt$, where $1 \leqslant n \leqslant 3$ and depends on the composition of the alloy, the oxidation temperature and the oxidation time. In addition to iron oxides, the

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126-1-11/40

Investigation of the high temperature oxidation of certain alloys of iron with tungsten.

following phases were observed in the scale of the investigated alloys: WO_3, $FeWO_4$ and Fe_2WO_6. The author puts forward the view that secondary reactions between oxides of iron and oxides of tungsten play a considerable role during high temperature oxidation. Acknowledgments are made to T. N. Ageyeva for her assistance in carrying out the experiments.
There are 7 figures, 3 tables and 10 references, 2 of which are Slavic.

SUBMITTED: October 12, 1956.

ASSOCIATION: Ural State University imeni A. M. Gor'kiy.
(Ural'skiy Gosudarstvennyy Universitet imeni A.M.Gor'kogo)

AVAILABLE: Library of Congress.

Card 4/4

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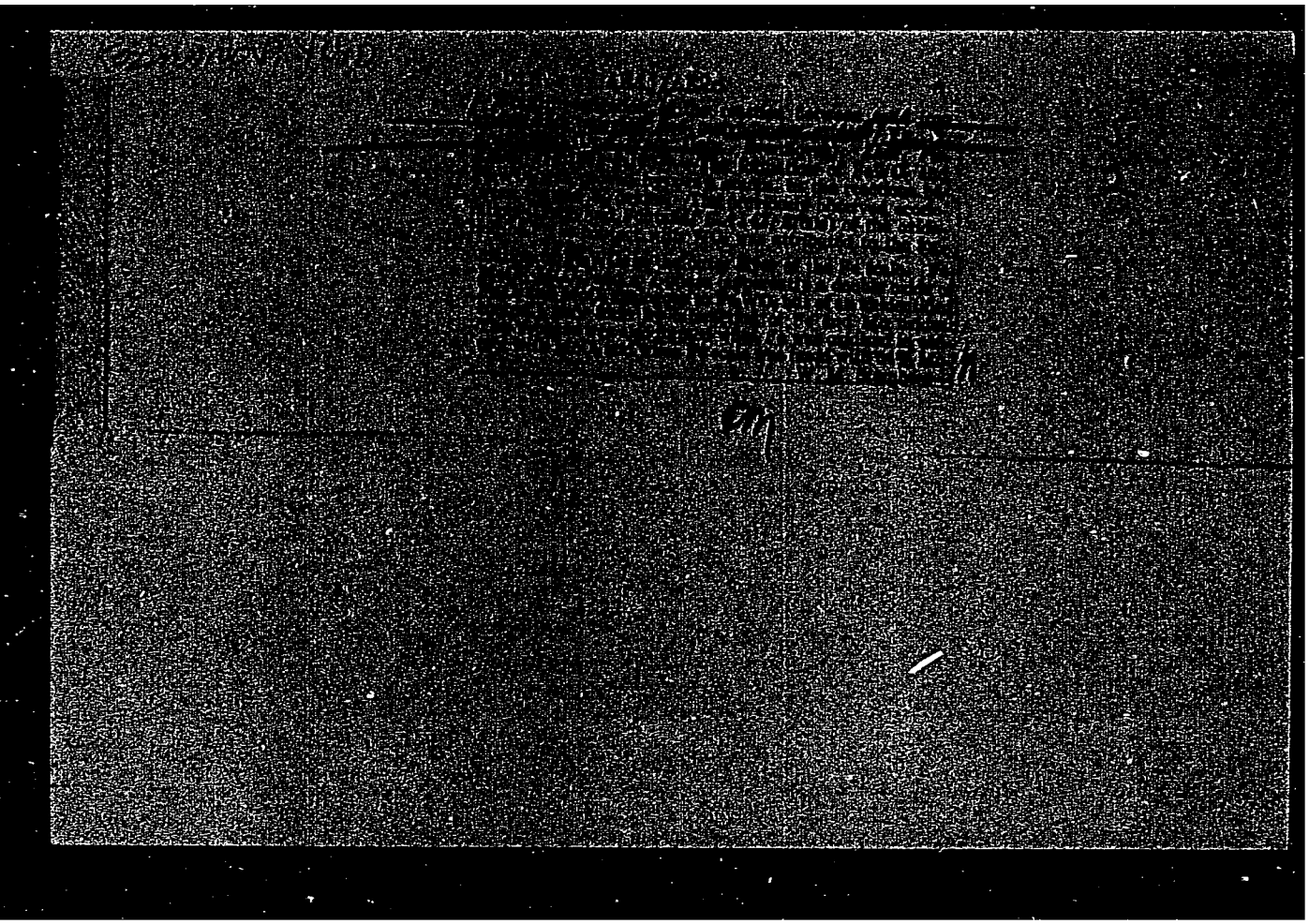

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

Kozmanov, Yu. D.

SOV/137-58-8-17531 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 189 (USSR)

AUTHOR: Kozmanov, Yu.D.

TITLE: Investigation of High-temperature Oxidation of Tungsten, Molybdenum, and Certain Binary Alloys of Iron with Tungsten and Molybdenum (Issledovaniye vysokotemperaturnogo okisleniya vol'frama, molibdena i nekotorykh binarnykh splavov zheleza s vol'framom i molibdenom)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Physical-Mathematical Sciences, presented to the Ural'skiy un-t (Ural University), Sverdlovsk, 1958

ASSOCIATION: Ural'skiy un-t (Ural University), Sverdlovsk

1. Tungsten--Oxidation 2. Molybdenum--Oxidation 3. Iron-molybdenum-tungsten alloys--Oxidation 4. Metals--Temperature factors

Card 1/1

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMANOV, Yu.D.; UGOL'NIKOVA, T.A.

Iron molybdates. Zhur. neorg. khim. 3 no.5:1267 My '58.
(MIRA 11:6)
(Iron molybdate)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

S/078/60/005/009/012/017
B015/B064

AUTHOR: Kozmanov, Yu. D.

TITLE: Reactions in Solid Phase Between Ferrous Oxide and the Dioxides of Molybdenum and Tungsten

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 9, pp. 2048-2050

TEXT: In continuation of previous papers, an additional study was made of the reaction in solid phase taking place between FeO and MoO_2, as well as between FeO and WO_2; the experimental technique of Refs. 1 and 2 was employed. The molybdate $FeMoO_3$ was found to form by the reaction $FeO + MoO_2$ (Tables, data of the X-ray picture). On oxidizing the molybdates $FeMoO_3$ and Fe_2MoO_4 in the air, $Fe_2(MoO_4)_3$ and Fe_2O_3 form at temperatures of up to 800°C, while above 800°C Fe_2O_3 and MoO_3 are obtained; this is in agreement with data given by A. N. Zelikman (Ref. 5). The reaction

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

Reactions in Solid Phase Between Ferrous Oxide and the Dioxides of Molybdenum and Tungsten

S/078/60/005/009/012/017
B015/B064

$2\ FeO + WO_2 \rightarrow FeWO_4 + Fe$ was found to occur on annealing a mixture of WO_2 and FeO at 700°-1100°C. There are 1 table and 6 references: 4 Soviet and 2 US.

SUBMITTED: June 16, 1959

Card 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

33836
S/137/62/000/001/172/237
A006/A101

18.8300

AUTHORS: Kozmanov, Yu. D., Feshchukova, T. T.

TITLE: Investigation of high-temperature oxidation of tungsten-rhenium alloys

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 77, abstract 1I546 ("Tr. Ural'skogo politekhn. in-ta", 1961, no. 114, 120 - 128)

TEXT: Addition of up to 5% Re at 660 - 900°C increases, and at 1,000 - 1,100°C, somewhat reduces heat resistance of tungsten. A further increase of the Re content (up to 20%) has a slight effect on heat resistance of tungsten. The authors revealed the "catastrophic" oxidation of alloys containing the σ-phase. An X-ray phase analysis and material balance indicate an almost complete evaporation of Re oxides from the scale during the oxidation process. In the scale of W-Re alloys, only a phase with the α -WO_3 structure and the β-phase ($W_{20}O_{58}$) were revealed by X-rays. There are 10 references.

Author's summary

[Abstracter's note: Complete translation]

Card 1/1

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

S/137/62/000/002/043/144
A006/A101

AUTHORS: Krasovskaya, A. K., Kozmanov, Yu. D.

TITLE: On the nature of structural heterogeneity of pyrrhotite obtained in iron sulfonation

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 32, abstract 2G250 ("Tr. Ural'skogo politekhn. in-ta", 1961, no. 114, 129-133)

TEXT: Armco-Fe plates were sulfonated in ampoules at 800 - 900°C under S vapor pressure as high as 3 - 1,000 mm Hg. On radiographs, broadening of FeS lines was revealed that was caused by the presence of microstresses. The authors explain that the minimum thermodynamic potential can be reached by the variation of concentrations or stresses, or both factors simultaneously.

Ye. Mozzhukhin

[Abstracter's note: Complete translation]

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APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

S/081/62/000/005/002/112
B158/B110

AUTHORS: Kozmanov, Yu. D., Sorokin, L. M.

TITLE: The structure of molybdenum ferrite

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 26, abstract 5B150 (Tr. Ural'skogo politekhn. in-ta, sb. 114, 1961, 154 - 155)

TEXT: It is established that when Fe_2MoO_4, obtained by solid phase reaction between FeO and MoO_2, is oxidized, parameter a increases from 8.484 to 8.493 kX; the degree of reversion λ (obtained by the Bertheau method) remains constant at 0.496 for non-oxidized ferrite and is 0.49 for oxidized ferrite, which indicates complete reversion of the spinel; parameter u of the O atom in the structure is determined by Patterson synthesis along the spatial diagonal and by comparing F (experimental) and F (calculated). It is established that u increases at oxidation from 0.37 to 0.38, which differs little from theoretical values for spinel. [Abstracter's note: Complete translation.]

Card 1/1

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L 12204-65 EWT(m)/EPF(c)/EWA(d)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD/WB/GS

ACCESSION NR: AT4048567 UR/0000/64/000/000/0160/0163

AUTHOR: Filatova, L. A.; Yesin, Yu. O.; Kormanov, Yu. D.

TITLE: Effect of germanium on the oxidation resistance of iron at high temperatures

SOURCE: AN SSSR. Institut fizicheskoy khimii. Mekhanizm vzaimodeystviya metallov s gazami (Mechanism of interaction of metals and gases). Moscow, Izd-vo Nauka, 1964, 160-163

TOPIC TAGS: iron oxidation, iron heat resistance, germanium alloy, iron alloy, iron oxide scale, xray analysis

ABSTRACT: Comparative measurements were made of the oxidation resistance of technical iron and iron-germanium alloys containing 3.75, 5.25, and 7.5% germanium. The impurities present in the alloys were 0.015% C, 0.05% Si, 0.02% S, 0.16% Mn, 0.009% P, 0.14% O_2, and 0.13% N_2. In addition, an alloy with 20% Ge melted in a vacuum induction furnace was used. The experiments were carried out in oxygen and air at 600-1100C. The scale formed on the alloys was found to have protective properties. A three-layer scale is formed on the alloy with 7.5% Ge at 700-1100C. X-ray diffraction analysis showed that the outer layer consists of hematite, the middle one of magnetite, and the inner one

Card 1/3

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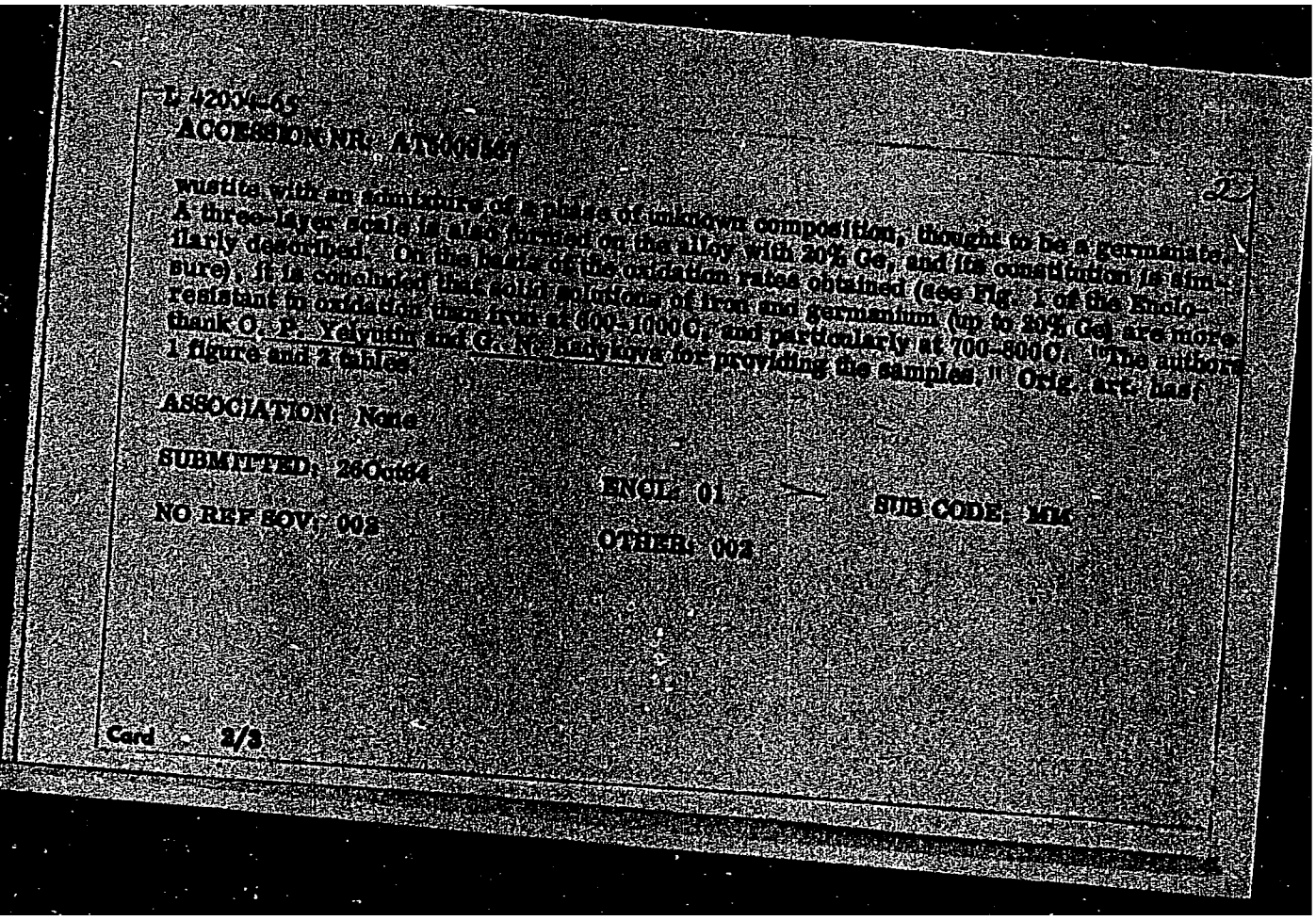

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ACCESSION NR: AT5008147

with an admixture of a phase of unknown composition, thought to be a germanate. A three-layer scale is also formed on the alloy with 20% Ge, and its constitution is similarly described. On the basis of the oxidation rates obtained (see Fig. 1 of the Enclosure), it is considered that solid solutions of iron and germanium (up to 20% Ge) are more resistant to oxidation than iron at 600-1000C, and particularly at 700-800C. "The authors thank O. P. Yelyutin and G. N. Kulikova for providing the samples." Orig. art. has: 1 figure and 2 tables.

ASSOCIATION: None

SUBMITTED: 26Oct64 ENCL: 01 SUB CODE: MM

NO REF SOV: 002 OTHER: 002

Card 2/3

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMANOV, Yu.D.; KONOVALOVA, T.S.; PETERYUKHINA, A.I.; CHERNIKOVA, N.V.

Scale structure on hot rolled dynamo steel. Metalloved. i term. obr. met. no. 2:19-21 F '65. (MIRA 18:12)

1. Verkh-Isetskiy metallurgicheskiy zavod.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

Kuzmanova, A. A.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp. There is 1 USSR reference.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

AUTHOR KOZMANOVA, A.A.

TITLE A Theorem by POLIA for Whole Functions of Two Complex Variables. (Teoremy Polia dlya tselykh funktsiy dvukh kompleksnykh peremennykh -Russian) 20-6-4/59

PERIODICAL Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 6, pp 1203-1205 (U.S.S.R.)

Received 7/1957 Reviewed 8/1957

ABSTRACT The following whole function of the complex variables p_1 and p_3 is assumed as given: $F(p_1,p_3)=\sum_{n=0}^{\infty}\sum_{m=0}^{n} a_{nm}p_3^{n-m}p_1^m$. The vector $\vec{p}(p_1,p_2,p_3)$ is here described as isotropic, if $p_1^2+p_2^2+p_3^2=0$ applies. The authoress here investigates the following whole function of the isotropic vector mentioned:

$$F(\vec{p})=\sum_{n=0}^{\infty}\sum_{m=0}^{n} a_{nm}p_3^{n-m}(p_1+p_2 i)^m+\sum_{n=0}^{\infty}\sum_{m=0}^{\infty} a^*_{nm}p_3^{n-m}(p_1-ip_2)^m$$

The function given in the following is described as "associated with"

$$f(x,yz)=\sum_{n=0}^{\infty}\sum_{m=0}^{\infty}(-1)^m(n-|m|)!\,a_{nm}(p_n^{|m|}(\cos Q)e^{im\varphi}/r^{n+1}),\quad a_{n(-m)}=a^*_{nm}.$$

The isotropic vector $\vec{p}$ may be represented in the form $\vec{p}=\vec{p}'+i\vec{p}''$, where $\vec{p}'$ and p'' denote real vectors. From the isotropy of $\vec{p}$ follows $|p'|=|p''|$, $p'\perp p''$. As an indicatrix of the addition of a whole function of the exponential type $F(\vec{p})$ the function $h(\varphi_1,\theta,\varphi_2)=\overline{\lim_{Q\to\infty}}\,(\ln|F(\vec{p})|/Q)$ is described, where $\vec{p}$ denotes a function of the

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

A Theorem by POLIA for Whole Functions of Two Complex Variables. 20-6-4/59

variables $\varrho, \varphi_1, \theta, \varphi_2$. D denotes the complex closure of the singularities of the function $f(x,y,z)$. The function $K(\varphi, \theta) = \max_{(x,y,z)\in D} \{x \sin\theta \cos\varphi + y \sin\theta \sin\varphi + z \cos\theta\}$ is described as a supporting function of the domain D. Here θ and φ denote the angles of the sperical system of coordintes. The indicatrix $h(\varphi_1, \theta \varphi_2)$ of the above mentioned function $F(\vec{p})$ is connected with the supporting function of the limited convex closure of the singularities of the harmonic function associated with $f(\vec{p})$ by the relation $\sup_{\varphi_2} h((\pi/2)+\varphi; \theta, \varphi_2) = K(\varphi, \theta)$. The proof of this theorem is outlined in form of a drawing, and four further conclusions drawn from this theorem are mentioned.
(No illustrations)

ASSOCIATION Ural State University
PRESENTED BY LAVRENT'YEV M.A., Member of the Academy
SUBMITTED 11.4.1956
AVAILABLE Library of Congress
Card 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMANOVA, A.A.

Deduction of the inverse problem equation in the theory of Newton's potential. Dokl. AN SSSR 116 no.1:21-23 S-O '57. (MIRA 11:3)

1. Ural'skiy gosudarstvennyy universitet im. A.M. Gor'kogo. Predstavleno akademikom M.A. Lavrent'yevym.
(Potential, Theory of) (Vector analysis)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMANOVA, A.A.

AUTHOR: KOZMANOVA, A.A. 20-2-2/50

TITLE: Potential-Harmonic Functions and Some of Their Applications (Potentsial'no-garmonicheskiye funktsii i nekotoryye ikh prilo-zheniya).

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol.116, Nr 2, pp.171-174 (USSR)

ABSTRACT: According to Bitsadze a vector function

$$\vec{f}(x_1,..,x_n) = f_1(x_1,..,x_n)\,\vec{\tau}_1 + .. + f_n(x_1,..,x_n)\,\vec{\tau}_n$$

in the domain T is denoted potential-harmonic if there is

$$\operatorname{div}\vec{f} = 0 \text{ and } \frac{\partial f_k}{\partial x_j} = \frac{\partial f_j}{\partial x_k} \text{ for } j,k=1,..,n.$$

Theorem: If $\vec{f}(x_1,..,x_n)$, $\vec{g}(x_1,..,x_n)$ are potential-harmonic in a domain which contains $T+\sigma$, where σ is the piecewise smooth boundary of T, then it is

$$\int_\sigma [\vec{f}\,\vec{w}\,\vec{g}]\,d\sigma = 0.$$

Here $\vec{w}$ is the unit vector of the exterior normal of σ and

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$$[\vec{a}\ \vec{b}\ \vec{c}] = -(\vec{b}\ \vec{c})\ \vec{a} + (\vec{c}\ \vec{a})\ \vec{b} - (\vec{a}\ \vec{b})\ \vec{c}.$$

If ρ is the distance of the points $M_1(x_1,..,x_n)$ and $M(\xi_1,..,\xi_n)$, ω_n the surface of the unit sphere, then it holds

$$\frac{1}{\omega_n}\int_\sigma \left[\operatorname{grad}\frac{1}{\rho^{n-2}(\xi_1,..,\xi_n,x_1,..,x_n)}\ \vec{n}(\xi_1,..,\xi_n)\ \vec{f}(\xi_1,..,\xi_n)\right]d\sigma =$$

$$= \vec{f}(x_1,..,x_n) \text{ if } M_1 \in T \text{ and } = 0 \text{ if } M_1 \in T',$$

where T' is the complement of $T + \sigma$ in the full space.

Let $u(x_1,..,x_n)$ be regular and harmonic outside of a certain neighborhood D of the zero point. Let σ be a piecewise smooth surface enveloping all the singularities of $u(x_1,..,x_n)$. Let $\vec{p} = p_1\vec{e}_1 + ..+ p_n\vec{e}_n$ be an isotropic vector, $\vec{n}$ the unit vector of the exterior normal of σ, $\vec{r} = x_1\vec{e}_1 + ..+ x_n\vec{e}_n$. Let a function $F(\vec{p})$ be defined as follows:

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$$\vec{p}\,F(\vec{p}) = \frac{1}{\omega_n}\int_\sigma \left[\operatorname{grad} u(x_1,..,x_n)\,\vec{w}(x_1,..,x_n)\,\vec{p}\,e^{(\vec{p}\,\vec{r})}\right] d\sigma .$$

The functions $u(x_1,..,x_n)$ and $F(\vec{p})$ are denoted as associated. The vector $\vec{p}$ is assumed to be represented as $\vec{p} = \vec{p}' + i\vec{p}''$, $i^2 = -1$, $\vec{p}'$ and $\vec{p}''$ real vectors with $\vec{p}' \perp \vec{p}''$, $|\vec{p}'| = |\vec{p}''| = \rho$. $\vec{p}'$ is determined by its length ρ and by the angles $\varphi_1,..,\varphi_{n-1}$ in the spherical system. The vector $\vec{p}''$ which lies in the $(n-1)$-dimensional subspace orthogonal to $\vec{p}'$ is determined by ρ and by the angles $\psi_1,..,\psi_{n-2}$. Therefore $\vec{p}$ is determined by $\rho, \varphi_1,.., \varphi_{n-1}, \psi_1,.., \psi_{n-2}$.

Theorem: The carrier function $K(\varphi_1,..,\varphi_{n-1}) =$

$$= \max_{(x_1,..,x_n)\in D} (x_1\cos\varphi_1 + x_2\sin\varphi_1\cos\varphi_2 + .. + x_n\sin\varphi_1 \ldots \sin\varphi_{n-1}),$$
$$0 \leq \varphi_j \leq \pi,\ j=1,..,n-2,\ 0 \leq \varphi_{n-1} \leq 2\pi$$

of D (D is the convex envelope of the singularities of an harmonic function u regular at infinity) and the indicatrix of

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increase

$$h(\varphi_1,\ldots,\varphi_{n-1},\psi_1,\ldots,\psi_{n-2}) = \overline{\lim_{\rho\to\infty}} \frac{\ln|F(\vec{p})|}{\rho}, \quad \rho = |\vec{p}'| = |\vec{p}''|$$

of the function $F(\vec{p})$ associated with u are in the following relation:

$$K = \sup_{\psi_1,\ldots,\psi_{n-2}} h.$$

The last theorem permits the author to obtain a summation method for series expansions in terms of spherical harmonics.

ASSOCIATION: Ural State University im. A. M. Gor'kiy (Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo)

SUBMITTED: April 4, 1957

AVAILABLE: Library of Congress

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMANOVA, A.A., Cand Phys-Math Sci -- (diss) "Potentially harmoni[redacted] functions and some of their applications." Sverdlovsk, 1958. 7 pp. (Min of Higher Education USSR. Ural State U im A.M. Gor'kiy). 100 copies. Bibliography: p 7 (11 titles). (KL, 12-58, 95)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

MESIS, A.V.; KOZMANOVA, A.A.

Linear elliptic equations. Mat.sap.Ural.mat.ob-va UrGu 3 no.2:59-68 '62. (MIRA 19:1)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMAY, T.I., inzh.; PASHCHEVSKIY, A.B., inzh.

Boring holes in a coal seam subject to sudden outbursts.
Ugol' Ukr. 9 no.12:43 D '65. (MIRA 19:1)

1. Donetskiy nauchno-issledovatel'skiy ugol'nyy institut.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

1. KOZMENKO A.S., IVANOVSKIY A.D.

2. USSR (600)

4. Snow

7. Snow cycle in the central forest-steppe zone. Gidr. i mel. 4 no.12, 1952.

9. Monthly List of Russina Accessions. Library of Congress, April 1953, unclass.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

1. KOZMENKO, A. S.; IVANOVSKIY, A. D.

2. USSR 600

4. Runoff

7. Surface runoff cycle in the central forest steppe zone, Gidr. i mel, 5, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

1. KOZMENKO, A. S.

2. USSR (600)

4. Karst

7. Reclamation of karst areas of the central foreststeppe zone through afforestation, Les i step', 5, no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZHENKO, A S

Bor'ba s eroziyey pochv (Soil erosion control) Moskva, Sel'khozgiz, 1954.
231 p. illus., Diagrs., Tables.

N/5
723.4
.K81

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMENKO, A. S.

Principles of the antierosion land improvement Moskva, Gos. izd-vo selkhoz lit-ry, 1954. 420 p.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMENKO, Aleksey Semenovich; KOREYSHO, Ye.G., red.; PAVLOVA, M.M., tekhn.red.

[Soil erosion control] Bor'ba s eroziei pochvy. Izd.2. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957, 206 p. (MIRA 11:12)
(Erosion)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMENKO, Aleksey Semenovich

[Silting of river reservoirs and its control] Zailenie rechnykh vodokhranilishch i bor'ba s nim. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1959. 166 p. (MIRA 13:12)
(Reservoir sedimentation)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

MATYAKIN, G.I.; NIKITIN, P.D.; KOZMENKO, A.S.; BRAUDE, I.D.; MIRONOV, V.V.; MATYUK, I.S.; BEREZINA, V.M.; MININ, D.D.; ISHIN, D.P.; MOROZOV, I.R.; GOLYATO, G.O.; CHASHKIN, M.I.; KOREYSHO, Ye.G., red.; GUREVICH, M.M., tekhn.red.

[Reference book for workers in the field of land improvement through afforestation] Spravochnik agrolesomelioratora. Izd.3. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 308 p.
(MIRA 13:6)

(Afforestation)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMENKO, A.S.; ANTROPOV, T.F., spets. red.; BLOKHINA, V.V., red.

[Controlling soil erosion in farm lands] Bor'ba s eroziei pochvy na sel'skokhoziaistvennykh ugod'iakh. Moskva, Sel'khozizdat, 1963. 207 p. (MIRA 18:3)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMENKO, L.S.; RAKITSKIY, N.P., redaktor; PAVLOVA, M.M., tekhnicheskiy redaktor; SOKOLOVA, N.N., tekhnicheskiy redaktor

[Soil erosion control] Bor'ba s eroziei pochv. Moskva, Gos. izd-vo selkhoz. lit-ry, 1954. 231 p. [Microfilm] (MLRA 7:10)
(Erosion) (Soil conservation)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MENKO, V.

Feeding and Feeding Stuffs

Problems of state stock-breeding farms in creating a permanent feed supply. Mias. ind. SSSR, 23, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952, Uncl.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MENKO, V.F., inzh.

Selecting operating conditions of combines for reducing the dustiness of mines. Bezop.truda v prom. 4 no.4:10-12 Ap '60. (MIRA 13:9)

1. Dongiprouglemash.
(Mine dusts--Safety measures)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MENKO, V.F., gornyy inzh.

Determining advantageous operational conditions for "Donbass-1" cutter-loaders. Ugol' 36 no.5:26-27 My '61. (MIRA 14:5)

1. Dongiprouglemash.
(Coal mining machinery)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

L 60419-65 EPF(n)/EPR/T/EWT(m)/EWG(m) Pr-4/Ps-4/Pu-4 WW

ACCESSION NR: AP5019114

UR/0286/65/000/012/0146/0146

621.039

AUTHOR: Koz'menkov, K. F.; Brishman, B. A.; Starikov, Ye. S.

TITLE: Method for detecting leakage in fuel element jackets. Class 90, No. 172259

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 146

TOPIC TAGS: nuclear reactor, reactor fuel element

ABSTRACT: This method, intended for reactors with a free water surface above the core, is based on the measurement of radioactivity of the water in the primary loop. In order to prevent fission products from the fuel element from entering the main loop, the water flowing through the element is shut off by means of a cap mounted on its upper face. Orig. art. has: 1 figure. [BP]

ASSOCIATION: none

SUBMITTED: 21Jan64 ENCL: 00 SUB CODE: NP

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4060

Card 1/1

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

cf Kozmicki, S.

16

The chemistry of malting. S. Kozmicki. *Przemysł Rolny i Spożywczy* 4, 61–4(1950).—A review. W. Szybalski

195

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMICKI, S.

3819 663.4 : 664.22 MD

Kozmicki S. The Use of Potato Syrup in the Production of Beer.

„Syrop ziemniaczany w zurtowaniu do produkcji piwa". Przemysł Spożywczy. No. 1, 1955, pp. 19–21, 6 tab.

It was established that: 1) yellow potato syrup may be added to the mash or wort, and does not affect the taste of the beer negatively if the malt is replaced by the syrup in quantities not exceeding 15 per cent; 2) additional experiments should be made concerning the application, in lieu of potato syrup for the production of beer, of potato starch in quantities of up to 20 per cent; 3) with potato starch, the aroma of the beer should be supplemented by an addition, up to 6 per cent, of aromatic malt, while the flavour should be adjusted by adding suitable quantities of lactic acid; 4) yellow potato syrup replacing 30 per cent of the sugar normally used, can be successfully used for sweetening up dark malt-beer.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMICKI, Stanislaw

Application of potato sirup for the sweetening of dark malt-beer. (To be contd.) Przemysl fermentacyjny 6 no.5:121-123 My '62.

1. Slodownia, Poznan.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMIDIADI, V.A.; CHERNYAVSKIY, V.S.

Concerning the standardization of the great number of automatons.
Vop. teor. mat. mash. no.2:34-51 '62. (MIRA 15:8)
(Electronic calculating machines) (Automation)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMIDIADI, V.A.; CHERNYAVSKIY, V.S.

Concerning some concepts in computer theory. Vop. teor. mat. mash. no.2:128-143 '62. (MIRA 15:8)
(Electronic calculating machines)

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34815

S/020/62/142/005/004/022
B112/B102

16,6800(1024,1344,1329)

AUTHOR: Kobrinskiy, V. A.

TITLE: Sets which are enumerable and solvable by automata

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 5, 1962, 1005-1006

TEXT: The author considers an alphabet $\Sigma = \{\sigma_1, \ldots, \sigma_m\}$ and a semi-group T in this alphabet. An automaton $A = \langle S, M, s_0, F, O\rangle$ contains the following objects: The set $S = \{s_0, s_1, \ldots, s_{n-1}\}$ of internal states ($n \geqslant 1$); the mapping M of $S \times \Sigma$ into S; the subset $F \subseteq S$, and the mapping O of S into T. Each $t = \sigma_{i_1}\sigma_{i_2}\ldots\sigma_{i_k} \in T$ implies a mapping $\mathcal{A}(t) = O(s_{j_1})O(s_{j_2})\ldots O(s_{j_k})$, where $s_{j_l} = M(s_{j_{l-1}}, \sigma_{i_l})$. The set $\mathcal{A}(T)$ is said to be enumerable by the automaton A. A set which is enumerable by an automaton with $F = S$ is said to be strongly enumerable. It is shown that there is an enumerable set which is not strongly enumerable. Further, it is demonstrated that a subset $W \subseteq T$ is enumerable only if it is finitely solvable. The concept

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of finite solvability agrees with that of the representable event (cf. S. K. Kleene, Sborn. Avtomaty, IL, 1956, str. 15-67). A predicate $A(t) \equiv M(s_0,t) \in F$ is said to be automatic. The author shows that it is not possible to build up a hierarchy of automatic predicates as has been done by Kleene-Mostovskiy (cf. S. K. Kleene, Vvedeniye v metamatematiku - Introduction to Metamathematics, IL, 1957). There are 5 references: 4 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: T. Robin, D. Scott, Intern. Business Machines, J. Res. and Development, 3, No. 2, 114 (1959).

PRESENTED: October 6, 1961, by P. S. Novikov, Academician

SUBMITTED: October 5, 1961

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ACCESSION NR: AR4039307 S/0044/64/000/003/V053/V054

SOURCE: Ref. zh. Matematika, Abs. 3V230

AUTHOR: Kozmidiadi, V. A.

TITLE: Sets which are solvable and countable by automata

CITED SOURCE: Sb. Probl. logiki. M., AN SSSR, 1963, 102-115

TOPIC TAGS: automaton, solvable countable set, algorithmic set theory, computable partially recursive function, finitely countable set, strongly countable set, finitely solvable set, qualification set, solvable event, intersection operation, automatic predicate, automatic predicate quantification

TRANSLATION: The author considers the possibility of constructing a theory, analogous to the algorithmic theory of sets, but based on the concept of the automaton. An automaton with outputs serves as an analog to a computable (partially recursive) function. The author considers the concepts of a finitely countable set (the set of values of the automaton) and of a strongly countable set (the set of values of

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ACCESSION NR: AR4039307

an everywhere-defined automaton). A set, which is finitely solvable by the automaton A, consists of all the input words under whose action A passes from the initial state to one of the states belonging to an (earlier) fixed set F, which is called the qualification set of the automaton. The concept of a set, finitely-solvable by the automaton, coincides with the concept of a solvable event. It is proven that the reserves of finitely-countable and finitely-solvable sets coincide. The transition, producible by the proof, from a counting automaton to a solving automaton is connected with the exponential increase of the number of states. Further on, it is established that there exist finitely solvable sets which are not strongly countable. The class of strongly countable sets is not closed with respect to the operation of intersection. In the last part of the article the author introduces the concept of the automatic predicate A(t), defined on the set of input words of the automaton A and true for the words t which transfer A from the initial state to the qualification set of conditions, F. It is shown that quantification of automatic predicates again gives automatic predicates. V. Marty*nyuk.

DATE ACQ: 22Apr64 SUB CODE: MA ENCL: 00

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KOZ'MIN, A.A., assistent

Case of melorheostosis. Vest. rent. i rad. no.6:77-80 N-D '54.
(MLRA 8:1)

1. Iz kafedry rentgenologii (zav. prof. D.Ya.Bogatin) Stalinskogo instituta usovershenstvovaniya vrachey (dir. prof. A.N.Araviyskiy)

(OSTEOSCLEROSIS,
melorheostosis, case report)

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KOZMIN, B.; BELKOV, M.

The "Belarus" tractor in corn loading. Muk.-elev.prom. 29 no.1:25-26 Ja '63. (MIRA 16:4)

1. Kiyevskaya normativno-issledovatel'skaya stantsiya (for Kozmin). 2. Mogilevskiy mel'nichnyy kombinat No. 7 (for Belkov).
(Corn (Maize)) (Loading and unloading)

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KOZ'MIN, B.I.

123-1-684

Translation from: Referativnyy Zhurnal, Mashinostroyeniye, 1957, Nr 1, p.104 (USSR)

AUTHOR: Koz'min, B.I.

TITLE: Chuck for Holding End Mill in Boring Machines (Patron dlya krepleniya kontsevykh frez na rastochnykh stankakh)

PERIODICAL: Technolog. transp. mashinostroyeniya, 1956, Nr 1, p.57

ABSTRACT: The design of a chuck for holding end mills in boring machines used at the Chelyabinsk transport machinery building plant is described. The chuck is installed in cone-shaped opening in the spindle of the borer, and fastened there with a cotter, whereupon the end mill is installed in the socket of the chuck.

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V.D.I.

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KOZ'MIN, B. P.

Hertzen, Aleksandr Ivanovich, 1812-1870

N. G. Chernyshevskii's trip to London in 1859 and his discussions with A. I. Hertzen. Izv. AN SSSR. Otd. lit. i iaz. 12, No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, D.I.

The Western Siberian Branch. Izv.AS1A 4 no.4:131-132 '62.
(MIRA 16:1)

1. Rukovoditel' sektora nauchnoy informatsii Zapadno-Sibirskogo filiala Akademii stroitel'stva i arkhitektury SSSR.
(Siberia, Western--Building research)

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, F. K.

Koz'min, F. K. The assembly and operation of mine ventilators Moskva, Gos. nauchno-tekhn. izd-vo lit-ry. po chernoi i tsvetnoi metallurgii, 1950.

29 p. (50-39424) TN303.K6

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, F.K., gornyy inzhener; BIRZHEVOY, A.G., gornyy inzhener

Multiple cable hoisting installations with rope driven pulleys.
Gor.zhur. no.6:45-50 Je '55. (MLRA 8:8)
(Mine hoisting)

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, Filipp Kuz'mich

KOZ'MIN, Filipp Kuz'mich; SMOLDYREV, A.Ye., red.; SOROCHAN, I.P., red.; ATTOPOVICH, M.K., tekhn.red.

[Installation and operation of crushing and brinding equipment in ore dressing plants] Montazh i ekspluatatsiia drobil'no-razmol'nogo oborudovaniia obogatitel'nykh fabrik. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 333 p. (MIRA 11:1)
(Ore dressing) (Crushing machinery)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

LIPOV, Pavel Petrovich,; KOZ'MIN, F.K., red.; SMOLDYREV, A.Ye., red. izd-va,; BEKKER, O.G., tekhn. red.

[Jaw crushers] Shchekovye drobilki. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1958. 111 p. (MIRA 11:10)

(Crushing machinery)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, Filipp Kuz'mich; VORONIN, L.N., gornyy inzh., retsenzent; VAYNBERG, P.B., retsenzent; SMOLDYREV, A.Ye., red.; ISLENT'YEVA, P.G., tekhn.red.

[Mine air ducts; design, arrangement and use] Rudnichnye vozdukhoprovody; raschet, ustroistvo i ekspluatatsiia. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1959. 125 p. (MIRA 12:12)
(Mine ventilation)

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

USSR / General Biology. Genetics. Plant Genetics. B

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14444

Author : Koz'min, G. T.
Inst : Not given
Title : New Intergeneric Hybrids of a Cherry-Plum

Orig Pub : Agrobiologiya, 1958, No 1, 141-143

Abstract : The plum P. ussuriensis Kov. et Kost. and the Chinese cherry C. tomentosa Thumb. were found to be suitable for cultivation in the Far East. These species hybridize well with the other species of plums and cherries as well as between themselves. At the 3rd year of fruit bearing the seedlings of the Chinese cherry C. tomentosa Thumb were taken as the mother form, while five varieties of the yellow fruit bearing plum P. ussuriensis

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Kov. et Kost. were taken as the father form. The pollination was carried out with a mixture of these five varieties, and 9.93 percent of useful young fruit were obtained. Two seedlings (No. 1-51-17 and No. 1-51-23) were without doubt hybrids, since they possessed properties of both parent forms. They are intermediate in character according to their size; the fruits are closer to the plum but have a taste of a cherry and keep for 5 days at room temperature (the cherry keeps for not more than one day). This hybrid is winter-hardy and yields 2 kg per bush. By hybridization of the cherry-plum hybrid (with the participation of the Western Peshchannaya cherry) and the Chinese

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USSR / General Biology. Genetics. Plant Genetics. B

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14444

C. tomentosa Thumb cherry the author obtained a hybrid with quite large, sour-sweet fruit which was somewhat bitter of skin, however. This hybrid may be easily multiplied by grafting. -- S. Ya. Krayevoy

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APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

NAYDICH, I.M.; KOZ'MIN, G.V.

Thermal processing of some coals of Kirghizistan and Kazakhstan in retorts. Trudy Inst.vod.khoz.i energ. AN Kir.SSR no.5: 87-108 '59. (MIRA 13:5)
(Coal gasification)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, G. V., and NAYDICH, I. M.

"Experimental Investigation of Mass Transfer at Pneumatic Drying of Coat Dust."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, K.N., kand.tekhn.nauk; OLEYNIKOV, V.M., kand.tekhn.nauk; GROTE, G.V., kand.tekhn.nauk, nauchnyy red.; VOROB'YEV, G.S., red.izd-va; GURDZHIYEVA, A.M., tekhn.red.

[Modern locomotive manufacture in the U.S.S.R. and in foreign countries] Sovremennoe lokomotivostroenie v SSSR i za rubezhom. Leningrad, Ob-vo po rasprostraneniiu polit. i nauchn.znanii RSFSR, Leningr.otd-nie, 1960. 42 p. (MIRA 13:8)
(Locomotives--Construction)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, L.V.

New German motorbus. Avt.i trakt.prom. no.5:44-45 My '56.
(MLRA 9:8)

(Germany, West--Motorbuses)

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, L.V.

Chromium plating cylinders made of light alloys. Avt. i trakt. prom. no.9:45-47 S '56. (MLRA 9:11)
(Cylinders) (Chromium plating)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, L.V.

Keyless joints for parts. Avr. i trakt.prom no.11:43-44 N '56.
(Germany--West--Machine-shop practice) (MLRA 10:1)

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, L., inzhener.

Independent heating and ventilation systems. Avt.transp.34 no.11: 39 N '56. (MLRA 9:12)
(France--Motorbuses)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, L.V.

Pneumatic setting up of dies. Avt. i trakt. prom. no.5:48 My '57.
(Dies (Metalworking)) (MLRA 10:6)

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

Koz'min, L. V.

KOZ'MIN, L.V.

Cold stamping presses with automatic sliding tables. Avt.i trakt. prom. no.7:46 Jl '57. (MIRA 10:11)
(Punching machinery)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, L.V.

KOZ'MIN, L.V.

Structural characteristics of power presses allowing reduction of time needed for mounting large dies. Avt.i trakt.prom. no.7:47 Jl '57. (MIRA 10:11)

(Power presses)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, L.V.

Exhaust gases from car engines and prevention of their noxious action. Avt.i trakt.prom. no.8:43 Ag '57. (MIRA 10:12)
(Air--Purification) (Automobiles--Fuel consumption)

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

AUTHORS: Guslitser, R.L., Koz'min, L.V. SOV/113-58-4-16/21

TITLE: Elastic Rims for Tires (Elastichnyye obody dlya shin)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 4, pp 44-45 (USSR)

ABSTRACT: After having remarked on the advantages of elastic rims for tires, the author discusses designs and principles applied in this direction in West Europe, mainly in West Germany. There are 2 diagrams and 5 references (Transliterated titles of 4 German and 1 French journal)

1. Tires--Equipment 2. Materials--Design

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VORONCHIKHIN, S.I.;RUPASOV, N.F.;STRELKOV, S.Ya.;GAZIZOV, KH.M.;KOZ'MIN, M.G.;MUL'TANOVSKIY, B.N.;SABEL'NIKOV, I.I.;SOLOPAYEV,A.G.;CHUDNOVA, V.S.

In memory of S. A. Flerov. Khirurgiia, Moskva no. 10:88 Oct 1952. (CIML 23:3)

1. Obituary of Head of the Department of Faculty Surgery at Izhevsk Medical Institute.

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZ'MIN, M. I.

Glass Manufacture

Glass-making tank furnace with artificially cooled wall beams. Stek. i ker., 9, No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

1. KOZ'MIN, M. I.

2. USSR (600)

4. Glass manufacture

7. New design of a grog boat for the manufacture of extra-heavy glass., Stel, i. ker., 9, no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZMIN, M. I.

Journal of Applied Chemistry
June 1954
Industrial Inorganic Chemistry

Glass [melting] tank with forced cooling of the side walls. M. I. Kozmin (*Steklo i Keramika*, 1952, 9, 11; *Glass Ind.*, 1954, 35, 78). The refractory side wall is upwardly and outwardly extended by a metal rim which allows the top of the refractory wall to be submerged in the glass. The very serious corrosion of the refractory as the level of the glass surface is prevented. The metal rim is cooled by a steam pipe or blast of air. J. A. Sugden.

MF 11-10-54

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